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AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

25. (new) A method for providing a supplementary channel in a wireless system comprising the steps of:

identifying available resources at a plurality of channel element modules (CEM) in a base station;

pre-allocating the available resources into a plurality of supplementary channels at a channel resource pool module (CRP) in the base station;

receiving a request for an additional bandwidth at the CRP; and

matching the request with a member of the plurality of the supplementary channels pre-allocated at the CRP, resulting in the supplementary channel; and

assigning the supplementary channel to the request.

26. (new) The method as claimed in claim 25 wherein the pre-allocating step, the receiving step and the matching step are completed on-board.

27. (new) The method as claimed in claim 25 wherein the pre-allocating step further includes the step of splitting the available resources to define the plurality of supplementary channels.

28. (new) The method as claimed in claim 25 wherein the pre-allocating step further includes the step of defining capacity and direction of operation of the plurality of supplementary channels .

29. (new) The method as claimed in claim 25, wherein each of the plurality of supplementary channels has information such as class, location, and status; further comprising the step of storing the information in a separate record of a database.

30. (new) The method as claimed in claim 25 wherein the request is resulted from a data-burst.

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31. (new) The method as claimed in claim 25 wherein the request is sent in a resource allocation command (RAC).

32. (new) The method as claimed in claim 29 wherein the matching step of further includes the step of comparing request with records in the database.

33. (new) The method as claimed in claim 29 further comprising the step of updating the information in the separate record of the database.

34. (new) The method as claimed in claim 25 wherein the additional bandwidth is for traffic selected from a group of data traffic, voice traffic and a combination thereof.

35. (new) A base station for providing a supplementary channel in a wireless system comprising:

a plurality of channel element modules (CEM) with available resources;
a channel resource pool module (CRP) for pre-allocating the available resources into a plurality of supplementary channels; the CRP receiving a request for additional bandwidth; and matching the request with a member of the plurality of the pre-allocated supplementary channels, resulting in the supplementary channel; and assigning the supplementary channel to the request; and
a database for storing information for the plurality of supplementary channels.

36. (new) The base station as claimed in claim 35 wherein the CRP further comprises a control module for receiving the request.

38. (new) The base station as claimed in claim 35 wherein the CRP further comprises a matching module for matching the request with the member of the plurality of the pre-allocated supplementary channels.

39. (new) The base station as claimed in claim 35 wherein the CRP further comprises an allocation module for pre-allocating the available resources.

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40. (new) The base station as claimed in claim 35 wherein the CRP further comprise a query and splitting module for collecting information respecting the available resources and splitting the available resources into pre-allocated channels.

41. (new) The base station as claimed in claim 35 wherein the information includes class, location, and status of the plurality of supplementary channels.

42. (new) The base station as claimed in claim 35 wherein the CRP receives a resource allocation command (RAC).

43. (new) A channel resource pool module (CRP) for use in a base station for providing a supplementary channel in a wireless system comprising:

means for identifying available resources at a plurality of channel element modules (CEM) in the base station;

means for pre-allocating the available resources into a plurality of supplementary channels;

means for receiving a request for additional bandwidth ; and

means for matching the request with a member of the plurality of the supplementary channels pre-allocated, resulting in the supplementary channel;
and

means for assigning the supplementary channel to the request.